

CLAIMS

1. A payment system to eliminate /minimize capital infrastructure required to enforce and receive payment of said regulations and to facilitate the enforcement of parking regulations, said system comprising the following components in addition to a vehicle, a parking space and a parking location:

A communications means used by the said occupant of said vehicle of said parking space communicates to a central processing means.

A reference identifier located with said vehicle

A geographical identifier belonging with said parking location

A wireless ticket issuance device used by enforcement personnel communicating to a central processing means

Said central processing means including at least one microprocessor, said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means and said wireless ticket issuance device.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications device said enforcement communications device, said microprocessor being programmed with a processing means to record the time activated by user of said occupant communications device in said geographical location with said reference identifier and count down said time activated by said occupant of said parking space with said communications means associated with said geographical location and said reference identifier.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means and said wireless

ticket issuance device, said microprocessor being programmed with a processing means to record the time activated by user of said occupant communications device in said geographical location with said reference identifier and communicate the status of said time activated by said occupant associated with said geographical location and said reference identifier to said wireless ticket issuance device.

2. The payment system of Claim 1 where said occupant communication means communicates to said central processing means information that can include said parking space identifier and said municipal identifier of said occupant said vehicle.

3. The payment system of Claim 1 where said occupant communication means can be a computer terminal interface.

4. The payment system of Claim 1 where said occupant communication means can be a landline telephone.

5. The payment system of Claim 1 where said occupant communication means said parking location can be referenced by means of geographic positioning systems.

6. The payment system of Claim 1 where said occupant communication means can include a mobile phone.

7. The payment system of Claim 1 where said occupant communication means can include a personal data assistant.

8. The payment system of Claim 1 where said occupant communication means can include a paging device.

9. The payment system of Claim 1 where said time designated for said reference identifier is provided by said occupant communication means.

10. The payment system of Claim 1 where said central processing means can provide the following information

The said time allotted in said central processing means said reference identifier as activated by said occupant wireless device

The location of said parked vehicle as provided by said occupant communication means

The status of said time on said reference identifier

Billing Information for said occupant communications means

Communication of account information to municipal databases

11. The payment system of Claim 1 where said reference identifier can be a reference tag displayed on said vehicle.

12. The payment system of Claim 1 where said reference identifier can be issued from said central processing means.

13. The payment system of Claim 1 where said reference identifier can be a reference tag with a bar code designation.

14. The payment system of Claim 1 where said reference identifier can be the vehicle's license plate.

15. The payment system of Claim 1 where said reference identifier can be the said vehicle's vehicle identification number.

16. The payment system of Claim 1 where said central processing means allows said occupant to register personal and payment information for the payment of said time activated by occupant communication means and stored on said microprocessor.

17. The payment system of Claim 1 where said central processing means can be a computer server which stores all the said reference identifier data strings and said parking location data strings belonging to said payment system.

18. The payment system of Claim 1 where said occupant communication means can add extra time with respect to said reference identifier by updating said central processing means during the time period of the activation of time of said reference device.

19. The payment system of Claim 1 where said occupant communication means can be notified by said central processing means when said reference identifiers time allotment as first activated by said occupant wireless issuance device is about to expire.

20. The payment system of Claim 1 where said wireless ticket issuance device used by said enforcement personnel can verify the time status of said reference identifier by entering the reference identifier number.

21. The payment system of Claim 1 where said wireless ticket issuance device used by said enforcement personnel can verify the time status of said reference identifier by scanning a bar code.

22. The payment system of Claim 1 where said wireless ticket issuance device used by said enforcement personnel can verify the time status by communicating with the said reference identifier by wireless communications.

23. The payment system of Claim 1 where said communication means used by said enforcement personnel can issue and process a ticket to said vehicle in said parking space.

24. A payment system to eliminate /minimize capital infrastructure required to enforce and receive payment of said regulations and to facilitate the enforcement of parking regulations, said system comprising the following components in addition to a vehicle, a parking space and a parking location:

A communications means used by the said occupant of said vehicle of said parking space communicates to a central processing means.

A reference identifier located with said vehicle

A geographical identifier belonging with said parking location

A wireless ticket issuance device used by enforcement personnel communicating to a central processing means

Said central processing means including at least one microprocessor, said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means and said wireless ticket issuance device.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications device said enforcement communications device, said microprocessor being programmed with a processing means to record the time activated by user of said occupant communications device in said geographical location with said reference identifier and count down said time activated by said occupant of said parking space with said communications means associated with said geographical location and said reference identifier.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means and said wireless

ticket issuance device, said microprocessor being programmed with a processing means to record the time activated by user of said occupant communications device in said geographical location with said reference identifier and communicate the status of said time activated by said occupant associated with said geographical location and said reference identifier to said wireless ticket issuance device.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communication means said wireless ticket issuance device, said microprocessor being programmed with a processing means to record the time activated by user of said occupant communications device in said geographical location with said reference identifier and communicate the status of said time activated by said occupant associated with said geographical location and said reference identifier to said wireless ticket issuance device, said enforcement personnel can issue a ticket with said wireless ticket issuance device if said time was not activated or expired

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means and said wireless ticket issuance device, said microprocessor being programmed with a processing means to record ticket information received by said wireless ticket issuance device used by said enforcement personnel when said time is not valid associated with said geographical location and said reference identifier.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means and said wireless ticket issuance device, said microprocessor being programmed with a processing means to record account information received by said occupant of said parking space to pay for said time activated by said occupant.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface

being capable of communicating with said occupant communications means and said wireless ticket issuance device, said microprocessor being programmed with a processing means to credit said parking location accounting system with payment received by said occupant of said parking space to pay for said time activated by said occupant in said parking location.

25. The payment system of Claim 24 where said occupant communication means communicates to said central processing means information that can include said parking space identifier and said municipal identifier of said occupant said vehicle.

26. The payment system of Claim 24 where said occupant communication means can be a computer terminal interface.

27. The payment system of Claim 24 where said occupant communication means can be a landline telephone.

28. The payment system of Claim 24 where said occupant communication means said parking location can be referenced by means of geographic positioning systems.

29. The payment system of Claim 24 where said occupant communication means can include a mobile phone.

30. The payment system of Claim 24 where said occupant communication means can include a personal data assistant.

31. The payment system of Claim 24 where said occupant communication means can include a paging device.

32. The payment system of Claim 24 where said time designated for said reference identifier is provided by said occupant communication means.

33. The payment system of Claim 24 where said central processing means can provide the following information

The said time allotted in said central processing means said reference identifier as activated by said occupant wireless device

The location of said parked vehicle as provided by said occupant communication means

The status of said time on said reference identifier

Billing Information for said occupant communications means

Communication of account information to municipal databases

34. The payment system of Claim 24 where said reference identifier can be a reference tag displayed on said vehicle.

35. The payment system of Claim 24 where said reference identifier can be issued from said central processing means.

36. The payment system of Claim 24 where said reference identifier can be a reference tag with a bar code designation.

37. The payment system of Claim 24 where said reference identifier can be the vehicle's license plate.

38. The payment system of Claim 24 where said reference identifier can be the said vehicle's vehicle identification number.

39. The payment system of Claim 24 where said central processing means allows said occupant to register personal and payment information for the payment of said time activated by occupant communication means and stored on said microprocessor.

40. The payment system of Claim 24 where said central processing means can be a computer server which stores all the said reference identifier data strings and said parking location data strings belonging to said payment system

41. The payment system of Claim 24 where said occupant communication means can add extra time with respect to said reference identifier by updating said central processing means during the time period of the activation of time of said reference device.

42. The payment system of Claim 24 where said occupant communication means can be notified by said central processing means when said reference identifiers time allotment as first activated by said occupant communication means is about to expire.

43. The payment system of Claim 24 where said wireless ticket issuance device used by enforcement personnel can verify the time status of said reference identifier by entering the reference identifier number.

44. The payment system of Claim 24 where said wireless ticket issuance device used by enforcement personnel can verify the time status of said reference identifier by scanning a bar code.

45. The payment system of Claim 24 where said wireless ticket issuance device used by enforcement personnel can verify the time status by communicating with the said reference identifier by wireless communications.

46. The payment system of Claim 24 where said wireless ticket issuance device used by enforcement personnel can issue and process a ticket to said vehicle in said parking space.

47. A payment system to eliminate /minimize capital infrastructure required to enforce and receive payment of said regulations and to facilitate the enforcement of parking regulations, said system comprising the following components in addition to a vehicle, a parking space and a parking location:

A communications means used by the said occupant of said vehicle of said parking space communicates to a central processing means.

A reference identifier located with said vehicle

A geographical identifier belonging with said parking location

A wireless ticket issuance device used by enforcement personnel communicating to a central processing means

Said central processing means including at least one microprocessor, said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means and said wireless ticket issuance device.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications device said enforcement communications device, said microprocessor being programmed with a processing means to record the time activated by user of said occupant communications device in said geographical location with said reference identifier and count down said time activated by said occupant of said parking space with said communications means associated with said geographical location and said reference identifier.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means and said wireless ticket issuance device, said microprocessor being programmed with a processing means to record the time activated by user of said occupant communications device in said geographical location with said reference identifier and communicate the status of said time activated by said occupant

associated with said geographical location and said reference identifier to said wireless ticket issuance device.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communication means said wireless ticket issuance device, said microprocessor being programmed with a processing means to record the time activated by user of said occupant communications device in said geographical location with said reference identifier and communicate the status of said time activated by said occupant associated with said geographical location and said reference identifier to said wireless ticket issuance device, said enforcement personnel can issue a ticket with said wireless ticket issuance device if said time was not activated or expired

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means and said wireless ticket issuance device, said microprocessor being programmed with a processing means to record ticket information received by said wireless ticket issuance device used by said enforcement personnel when said time is not valid associated with said geographical location and said reference identifier.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means said wireless ticket issuance device, said microprocessor being programmed with a processing means to record the time activated by user of said occupant communications means in said geographical location with said reference identifier and communicate the status of said time activated by said occupant to said occupant communications means associated with said geographical location and said reference identifier.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means and said wireless

ticket issuance device, said microprocessor being programmed with a processing means to record account information received by said occupant of said parking space to pay for said time activated by said occupant.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means and said wireless ticket issuance device, said microprocessor being programmed with a processing means to credit said parking location accounting system with payment received by said occupant of said parking space to pay for said time activated by said occupant in said parking location.

48. A payment system to eliminate /minimize capital infrastructure required to enforce and receive payment of said regulations and to facilitate the enforcement of parking regulations, said system comprising the following components in addition to a vehicle, a parking space and a parking location:

A communications means used by the said occupant of said vehicle of said parking space communicates to a central processing means.

A reference identifier located with said vehicle

A geographical identifier belonging with said parking location

A wireless ticket issuance device used by enforcement personnel communicating to a central processing means

Said central processing means including at least one microprocessor, said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means, said wireless ticket issuance device, said parking location accounting system.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means said wireless ticket issuance device, and said parking location accounting system, said microprocessor being

programmed with a processing means to credit said parking location accounting system with payment received by a external party to pay for said time activated by said occupant of said parking space in said parking location.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications device said enforcement communications device, said microprocessor being programmed with a processing means to record the time activated by user of said occupant communications device in said geographical location with said reference identifier and count down said time activated by said occupant of said parking space with said communications means associated with said geographical location and said reference identifier.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means and said wireless ticket issuance device, said microprocessor being programmed with a processing means to record the time activated by user of said occupant communications device in said geographical location with said reference identifier and communicate the status of said time activated by said occupant associated with said geographical location and said reference identifier to said wireless ticket issuance device.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communication means said wireless ticket issuance device, said microprocessor being programmed with a processing means to record the time activated by user of said occupant communications device in said geographical location with said reference identifier and communicate the status of said time activated by said occupant associated with said geographical location and said reference identifier to said wireless ticket issuance device, said enforcement personnel can issue a ticket with said wireless ticket issuance device if said time was not activated or expired

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means and said wireless ticket issuance device, said microprocessor being programmed with a processing means to record ticket information received by said wireless ticket issuance device used by said enforcement personnel when said time is not valid associated with said geographical location and said reference identifier.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means said wireless ticket issuance device, and said parking location accounting system, said microprocessor being programmed with a processing means to calculate using a mathematical algorithm the price of said time based upon the usage of said parking space in said parking location, the said price of said time may be greater or less than the standard price set for said parking space at a particular time.

49. A payment system to eliminate /minimize capital infrastructure required to enforce and receive payment of said regulations and to facilitate the enforcement of parking regulations, said system comprising the following components in addition to a vehicle, a parking space and a parking location:

A communications means used by the said occupant of said vehicle of said parking space communicates to a central processing means.

A reference identifier located with said vehicle

A geographical identifier belonging with said parking location

A wireless ticket issuance device used by enforcement personnel communicating to a central processing means

Said central processing means including at least one microprocessor, said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of

communicating with said occupant communications means, said wireless ticket issuance device, said parking location accounting system and a messaging system.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications device said enforcement communications device, said microprocessor being programmed with a processing means to record the time activated by user of said occupant communications device in said geographical location with said reference identifier and count down said time activated by said occupant of said parking space with said communications means associated with said geographical location and said reference identifier.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means and said wireless ticket issuance device, said microprocessor being programmed with a processing means to record the time activated by user of said occupant communications device in said geographical location with said reference identifier and communicate the status of said time activated by said occupant associated with said geographical location and said reference identifier to said wireless ticket issuance device.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communication means said wireless ticket issuance device, said microprocessor being programmed with a processing means to record the time activated by user of said occupant communications device in said geographical location with said reference identifier and communicate the status of said time activated by said occupant associated with said geographical location and said reference identifier to said wireless ticket issuance device, said enforcement personnel can issue a ticket with said wireless ticket issuance device if said time was not activated or expired

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface

being capable of communicating with said occupant communications means and said wireless ticket issuance device, said microprocessor being programmed with a processing means to record ticket information received by said wireless ticket issuance device used by said enforcement personnel when said time is not valid associated with said geographical location and said reference identifier.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means and said wireless ticket issuance device, said microprocessor being programmed with a processing means to record account information received by said occupant of said parking space to pay for said time activated by said occupant.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means and said wireless ticket issuance device, said microprocessor being programmed with a processing means to credit said parking location accounting system with payment received by said occupant of said parking space to pay for said time activated by said occupant in said parking location.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means said wireless ticket issuance device, said parking location accounting system, and said messaging system said microprocessor being programmed with a processing means to credit said parking location accounting system with payment received by a external party to pay for said time activated by said occupant of said parking space in said parking location and a processing means to communicate a message to said occupant about said external parties payment gratuity and potential sales and services.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means said wireless ticket

issuance device, and said parking location accounting system, said microprocessor being programmed with a processing means to calculate using a mathematical algorithm the price of said time based upon the usage of said parking space in said parking location, the said price of said time may be greater or less than the standard price set for said parking space at a particular time.

50. A payment system to eliminate /minimize capital infrastructure required to enforce and receive payment of said regulations and to facilitate the enforcement of parking regulations, said system comprising the following components in addition to a vehicle, a parking space and a parking location:

A communications means used by the said occupant of said vehicle of said parking space communicates to a central processing means.

A reference identifier located with said vehicle that has a communication means.

A wireless ticket issuance device used by enforcement personnel communicating to a central processing means

A parking meter with a means to transmit, receive and process information.

Said parking meter being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means said wireless ticket issuance device, and said parking location accounting system, said parking meter being programmed with a processing means to credit said parking location accounting system with payment received by said reference identifier located with said vehicle that has a communications means to credit said parking meter for said time activated by said reference identifier of said parking space in said parking location.

Said central processing means including at least one microprocessor, said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means, said wireless ticket issuance device, said parking location accounting system and said parking meter.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means said wireless ticket issuance device, and said parking location accounting system, said microprocessor being programmed with a processing means to credit said parking location accounting system with payment received by said parking meter from said reference identifier.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means said wireless ticket issuance device, and said parking location accounting system, said microprocessor being programmed with a processing means to credit said parking meter with credit from said occupant communication means.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communication means said wireless ticket issuance device, said microprocessor being programmed with a processing means to record the time activated by said reference identifier to said parking meter in said geographical location and communicate the status of said time of said parking meter to said wireless ticket issuance device, said enforcement personnel can issue a ticket with said wireless ticket issuance device if said time was not activated or expired

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communication means said wireless ticket issuance device, said microprocessor being programmed with a processing means to record the time activated by said reference identifier to said parking meter and communicate the status of said time of said parking meter to said occupant communication means.

Said microprocessor being connectable to a data input subsystem, data output circuitry, data storage circuitry, and a communication interface, said communication interface being capable of communicating with said occupant communications means and said wireless

ticket issuance device, said microprocessor being programmed with a processing means to record ticket information received by said wireless ticket issuance device used by said enforcement personnel when said time is not valid associated with said geographical location and said reference identifier.

51. The payment system of Claim 50 where said occupant communication means can be a computer terminal interface.

52. The payment system of Claim 50 where said occupant communication means can be a landline telephone.

53. The payment system of Claim 50 where said occupant communication means can include a mobile phone.

54. The payment system of Claim 50 where said occupant communication means can include a personal data assistant.

55. The payment system of Claim 50 where said occupant communication means can include a paging device.

56. The payment system of Claim 50 where said time designated for said reference identifier is provided by said occupant communication means.

57. The payment system of Claim 50 where said central processing means can provide the following information

The said time allotted in said parking meter

The location of said parked vehicle as provided by said parking meter

The status of said time on said parking meter

Billing Information for said reference identifier

Communication of account information to municipal databases

58. The payment system of Claim 50 where said reference identifier can be issued from said central processing means.

59. The payment system of Claim 50 where said reference identifier can be a radio frequency transponder with wireless communications capabilities.

60. The payment system of Claim 50 where said central processing means allows said occupant to register personal and payment information for the payment of said time activated by said reference identifier and stored on said microprocessor.

61. The payment system of Claim 50 where said central processing means can be a computer server which stores all the said reference identifier data strings and said parking location data strings belonging to said payment system

62. The payment system of Claim 50 where said reference identifier has a wireless communication means to update the nearest or relevant said parking meter monitoring its corresponding said parking space.

63. The payment system of Claim 50 where said occupant communications means can communicate to the central processing means to provide said time to relevant said parking meter monitoring its corresponding said vehicle in said parking space.

64. The payment system of Claim 50 where said occupant communication means can add extra time with respect to said parking meter by updating said central processing means during the time period of the activation of time of said parking meter.

65. The payment system of Claim 50 where said occupant communication means can be notified by said central processing means when said parking meter time allotment as first activated by said reference identifier at said parking meter is about to expire.

66. The payment system of Claim 50 where said vehicle said parking meter can be receive a time allotment from said central processing means activated by said occupant communication means.

67. The payment system of Claim 50 where said wireless ticket issuance device used by said enforcement personnel can issue and process a ticket to said vehicle in said parking space.

68. The payment system of Claim 50 where said reference identifier can be a mobile phone.

69. The payment system of Claim 50 where said reference identifier can be a personal data assistant.